

Amendments to the Claims

The listing of Claims will replace all prior versions and listings of the Claims in the application:

Listing of Claims:

1. (Currently Amended) A radio receiver comprising:
 - a first tuner configured to connect with an antenna and to generate a first audio signal;
 - a second tuner configured to connect with the antenna and to generate a second audio signal;
 - a digital signal processor configured to receive the first audio signal and the second audio signal, to also digitally process the first audio signal to generate a first processed audio output signal, and to digitally process the second audio signal to generate a second processed audio output signal, where the first audio signal and the second audio signal are digitally processed simultaneously by the digital signal processor;
 - a first audio power amplifier connected with the digital signal processor, and configured to receive the first processed audio output signal; and
 - a second audio power amplifier connected with the digital signal processor, and configured to receive the second processed audio output signal.
2. (Original) The radio receiver of claim 1, wherein the digital signal processor generates substantially simultaneously the first processed audio output signal and the second processed audio output signal, and further comprising a control unit connected with the first tuner and the second tuner.
3. (Original) The radio receiver of claim 2 where the control unit is operable to generate a first tuner control output that is used to set the first tuner to a first selected frequency.
4. (Original) The radio receiver of claim 3 where the control unit is operable to generate a second tuner control output that is used to set the second tuner to a second selected frequency.
5. (Cancelled).

6. (Previously Presented) The radio receiver of claim 4, where first tuner is configured to generate a first tuner signal quality signal, and the control unit is configured to receive the first tuner signal quality signal, and to detect that the first tuner signal quality signal is less than a predetermined threshold of signal quality, and in response to the detection, to adjust the first tuner to a first tuner alternate frequency setting.
7. (Cancelled).
8. (Previously Presented) The radio receiver of claim 6, where the second tuner is configured to generate a second tuner signal quality signal, and the control unit is further configured to receive the second tuner signal quality signal, and to detect that the second tuner signal quality is less than the predetermined threshold of signal quality, and in response to the detection, to adjust the second tuner to a second tuner alternate frequency setting.
9. (Previously Presented) The radio receiver of claim 1 further comprising a first radio data system decoder connected with the first tuner and a control unit, and the first radio data system decoder is configured to generate first tuner data related to the first tuner.
10. (Cancelled).
11. (Previously Presented) The radio receiver of claim 9 further comprises a display unit operably coupled to the control unit, and the control unit is configured to receive the first tuner data and to control the display unit to display the first tuner data.
12. (Previously Presented) The radio receiver of claim 11 further comprising a second radio data system decoder connected with the second tuner and the control unit, and the second radio data system decoder is configured to provide second tuner data related to the second tuner to the control unit, and the control unit is further configured to control the display unit to display the second tuner data.
- 13.-14. (Cancelled).

15. (Original) The radio receiver of claim 1 where the first audio power amplifier is connected with at least one speaker.
16. (Original) The radio receiver of claim 1 where the second audio power amplifier is connected with a headphone jack.
17. (Original) The radio receiver of claim 1 where the first audio power amplifier is connected with a vehicle speaker system and the second audio power amplifier is connected with a headphone jack.
18. (Currently Amended) A radio receiver comprising:
 - a control unit;
 - a first tuner configured to produce a first tuner output, wherein the first tuner is connected with the control unit, and the control unit configured to tune the first tuner to a first tuner frequency setting;
 - a second tuner configured to produce a second tuner output, wherein the second tuner is connected with the control unit, and the control unit configured to tune the second tuner to a second tuner frequency setting;
 - a digital signal processor connected with the first tuner and the second tuner, and the digital signal processor configured to digitally process the first tuner output to generate a first digitally processed audio signal as a function of the first tuner frequency setting, and to also generate a second digitally processed audio signal as a function of the second tuner frequency setting, where the digital signal processor digitally processes the first tuner output and the second tuner output simultaneously;
 - a first audio power amplifier connected with the digital signal processor, and the first audio power amplifier is configured to receive the first digitally processed audio signal; and
 - a second audio power amplifier connected with the digital signal processor, and the second audio power amplifier is configured to receive the second digitally processed audio signal.
19. (Cancelled).

20. (Previously Presented) The radio receiver of claim 18 further comprising:
a first and second radio data system decoder connected with the respective first tuner and second tuner and configured to provide respective first and second tuner RDS data;
the control unit is further configured to receive the respective first tuner RDS data and second tuner RDS data.
21. (Previously Presented) The radio receiver of claim 20 where the first tuner RDS data comprises a list of first tuner alternative frequencies for the first tuner frequency setting.
22. (Previously Presented) The radio receiver of claim 21 where the first tuner is configured to produce a first tuner signal quality signal, and the control unit is configured to receive the first tuner signal quality signal and to detect that the first tuner signal quality signal falls below a predetermined level of quality and, in response to the detection, to tune the first tuner to one of the listed first tuner alternative frequencies.
- 23.-25. (Cancelled)
26. (Previously Presented) The radio receiver of claim 22 where the second tuner RDS data comprises a list of second tuner alternative frequencies for the second tuner frequency setting.
27. (Previously Presented) The radio receiver of claim 18:
where the digital signal processor substantially simultaneously generates the first digitally processed audio signal and second digitally processed output signal; and
where the second tuner is configured to generate a second tuner signal quality signal, and the control unit is configured to detect that the second tuner signal quality output is less than a predetermined level of quality and, in response to the detection, to tune the second tuner to one of the listed second tuner alternative frequencies.
28. (Cancelled).

29. (Previously Presented) The radio receiver of claim 26 further comprising a display unit operably coupled to the control unit, and the control unit further configured to control the display unit to display a portion of the first tuner RDS data and the second tuner RDS data.

30. (Previously Presented) The radio receiver of claim 18 where the first audio power amplifier is connected with a speaker system and the second audio power amplifier is connected with a headphone jack.

31.-34. (Cancelled).

35. (Previously Presented) The radio receiver of claim 18 where the first audio power amplifier is connected with a vehicle speaker system and the second audio power amplifier is connected with a headphone jack.

36.-41. (Cancelled).

42. (Previously Presented) A method of providing two radio tuner audio outputs comprising:
receiving first and second radio tuner audio signals from respective first and second radio tuners;

simultaneously digitally processing the first and second radio audio signals to generate respective first and second digitally processed audio signals;

generating respective first and second amplified processed audio signal based upon the respective first and second digitally processed audio signals;

generating respective first and second radio tuner signal quality signals related to the first and second radio tuner audio signals;

generating respective first and second quality detections in response to detection that the first and second radio tuner signal quality signals are less than a predetermined quality threshold value;

respectively tuning the first and second radio tuner to respective alternative frequencies in response to respective first and second quality detections;

outputting the first amplified processed audio output to a speaker; and

outputting the second amplified processed audio output to a headphone interface adapted to provide the second amplified processed audio output to a headphone.

43. (Previously Presented) The method of claim 42 further comprising:

generating respective first and second RDS data based on the first and second radio tuner audio signals, the respective first and second RDS data including the respective first and second alternative frequencies for the respective first and second radio tuner audio signals.

44. (Previously Presented) The method of claim 42, where the first and second radios are located in a vehicle.

45. (Previously Presented) The method of claim 42, where the speaker is positioned to provide audio to a driver of the vehicle.

46. (Previously Presented) The method of claim 42, where the headphone interface is positioned to provide audio to a passenger of the vehicle.